Date: Tue, 19 Oct 93 04:30:35 PDT
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>
Errors-To: Ham-Homebrew-Errors@UCSD.Edu
Reply-To: Ham-Homebrew@UCSD.Edu
Precedence: Bulk
Subject: Ham-Homebrew Digest V93 #77
To: Ham-Homebrew

Ham-Homebrew Digest Tue, 19 Oct 93 Volume 93 : Issue 77

Today's Topics:

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

Date: 18 Oct 93 14:32:38 GMT
From: auratek!epacyna@uunet.uu.net
Subject: 40M QRP Transceiver For Sale
To: ham-homebrew@ucsd.edu

The transceiver is based on the " 40 Meter Optimized QRP Transceiver" by W7EL

See August 1980 QST, 1992 & 1993 ARRL Handbook or QRP Classics (2nd Edition).

However, it has been further improved with the following changes.

* A 5 pole HP filter has been cascaded with the 5 pole LP filter to form a
  wide bandpass filter.

* A double tuned narrow band pass filter has been added in front of the RF
  port on the SBL-1 mixer.

* A 7 element Elliptical LP filter has been added in the audio channel. The

cutoff is 825 Hz with a shape factor of 1.4:1.

* A complementary pair AF driver has been added to drive small speakers or 8 ohm earphones.

* Power has been icreased to a full 5W output (adjustable with pot on PCB).

The transceiver is homebrew, on a single PCB, and in an attractive black enclosure (6"W x 6"D x 2 1/2"H) with alumimum front & back panels (neatly lettered with dry transfers). The transceiver features:

* Front panel w/ tuning (7.00 to 7.055Mhz w/ 6:1 reduction drive), RIT, spot & volume controls, and a LED power on lite.

* Back panel has power cable (diode polarity protected), antenna SO239, key jack (phono jack) and earphone/speaker jack (2 circuit mini jack).

* Full QSK, stable VFO operation & sidetone (600 Hz)

Price is $120 plus ship.

Contact Ed Pacyna W1AAZ email: ed@auratek.com telephone (617)290-4800 x114

Date: Mon, 18 Oct 1993 23:01:52 GMT
From: raven.alaska.edu!aurora.alaska.edu!fsrla@decwrl.dec.com
Subject: Begginer looking for suggestions!
To: ham-homebrew@ucsd.edu

Hello, I need HELP!
I would like to get into making my own
equipment. I've never done it before aside
from one incredibly simple antenna. I was wondering
if anyone had suggestions on some simple (but useful)
things I could practice my skills on. Our library has
every issue of QST since i think 1920 or something like that
and it would take a VERY long time to go through it issue by issue.
Could someone suggest, perhaps, a project from a specific issue
intended for the begginer?????
Please email me with some suggestions!!!!
THANKS!!!!   ROG!

FSRLA@AURORA.ALASKA.EDU

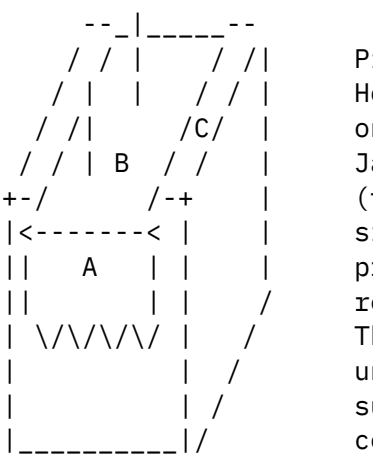
Date: Mon, 18 Oct 93 17:11:25 GMT
From: ncrgw2.ncr.com!ncrhub2!torynews!kevin@uunet.uu.net
Subject: Dual plug
To: ham-homebrew@ucsd.edu

Kenneth,

I tried to email this reply but it bounced so I'll post it:

I made a cable such as this to connect a KPC-3 to a HTX-202. I'm not using it right now because I've dedicated an old xtal 2M set to packet (but no you can't have it...I need to keep it in case the Swan dies).

It's real easy to make, though. What I did was get an extra DB-9 plastic shell from Radio Shack, along with a piece of copper-clad circuit board material. I cut a small rectangle out of the circuit board material, large enough to be held in by the DB-9 L-clamps (which are on the long edges of the connector). Then I cut the holes for the two connectors (measure carefully). I soldered a couple of additional pieces of circuit board at 90 degrees and cut the DB-9 side lobes off so the whole U-shaped affair could be inserted. I'll try to draw it...

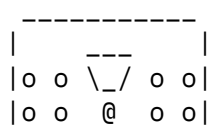


Pieces marked A(2) and B are PC board stock.
Horizontal line at A is soldered, similar on other side.
Jagged line is where I cut the connector (the "A" pieces need to be flat against the side of the connector, the DB-9 shell has a protruding support under A which must be removed.
The lip at C provides support for plugging and unplugging, the "A" pieces provide lateral support. (they extend downward within the connector shell).

If you feel this is of general interest, you may post it. Good luck!

--

Kevin Sanders, KN6FQ
kevin.sanders@torreypinesca.ncr.com
kevin%beacons@cyber.net



Try Boatanchors
For A Real Lift

Date: Mon, 18 Oct 1993 16:44:00 GMT
From: library.ucla.edu!agate!howland.reston.ans.net!math.ohio-state.edu!
cs.utexas.edu!TAMUTS.TAMU.EDU!bloom-beacon.mit.edu!mcrcim.mcgill.edu!sifon!
newsflash.concordia.ca!vax2.@hub.ucsb.edu
Subject: INTERMOD
To: ham-homebrew@ucsd.edu

Hi everyone, This question should concern every soul that ever attempted to operate an H.T. in a mobile using a Mag Mount or other type of external 'gain' antenna in a large city: >>>>> INTERMOD ! The solution seems quite simple ... I noticed that when I'm swamped with intermod, going back to the 'ducky' usually solves the problem at least partially. If one could attenuate the incoming signals from the external antenna on receive only and not affect anything during transmit, you would have the perfect combination for an H.T. in a car ... So what is really needed for so many of us is a "variable rf in-line attenuator" that would be rf-switched-out during transmit.

Any ideas out there?

Thanks & 73 de Denis.

|- . , ; * " : ' ` `~ - ,` * ` - + / * |
|: 1+514.769.7829 H . ' . ~~ ' . ; ' : ` " ' ` ,|
| 1+514.848.3454 W " * + ' . ~ Space ... ~ ` |
| " cis:71271,2616 ; . , +. , The Final Frontier. *. "|
| ` Drobert@vax2.Concordia.ca + * . , ; " ' ` ~ , . ~ . ,+|
| ~ Drobert@Conu2 * + ` ~. , : * ; ' " . , + * |
|" * , 71271.2616@Compuserve.com + , * *, . + +|
| , : ve2ilf@ve2fkb.#MTL.PQ.CAN.NA ` " , . ' . : |
| . - , ` +, `- . . * . `- , . ++ ` . *+ |

Date: 18 Oct 93 19:00:57 GMT
From: ogicse!hp-cv!sdd.hp.com!col.hp.com!csn!teal.csn.org!
dfeldman@network.ucsd.edu
Subject: INTERMOD
To: ham-homebrew@ucsd.edu

In article <18OCT199311442350@vax2.concordia.ca> drobert@vax2.concordia.ca (DENIS ROBERT, VE2ILF) writes:
>
> Hi everyone, This question should concern every soul that ever attempted
>to operate an H.T. in a mobile using a Mag Mount or other type of external
>'gain' antenna in a large city: >>>>> INTERMOD ! The solution seems quite

>simple ... I noticed that when I'm swamped with intermod, going back to the
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>the incoming signals from the external antenna on receive only and not affect
>anything during transmit, you would have the perfect combination for an H.T. in
>a car ... So what is really needed for so many of us is a "variable rf in-line
>attenuator" that would be rf-switched-out during transmit.
>
>   Any ideas out there?
>
>   Thanks & 73 de Denis.

Look for a "dead" inline VHF preamp for sale -- make sure it's RF switching
still works, but OK if the amp (transistor) itself is dead. Then open it up
and replace what was the amp with an appropriate attenuator.

Voila!

Now you can even turn it on and off to have attenuation.

73 Dave WB0GAZ

Date: Mon, 18 Oct 1993 18:29:37 GMT
From: pacbell.com!amdahl!netcomsv!netcom.com!wa2ise@network.ucsd.edu
Subject: INTERMOD
To: ham-homebrew@ucsd.edu

In article <18OCT199311442350@vax2.concordia.ca> drobert@vax2.concordia.ca (DENIS
ROBERT, VE2ILF) writes:
>   Hi everyone, This question should concern every soul that ever attempted
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>anything during transmit, you would have the perfect combination for an H.T. in
>a car ... So what is really needed for so many of us is a "variable rf in-line
>attenuator" that would be rf-switched-out during transmit.

A better solution I think would be a box you could connect between the HT
and the antenna, that box containing a band pass filter that lets the
2m ham band thru, and attenuate stuff outside the ham band. Create the
tight front end the radio reciever should have had. This should block the
out-of-band crud that causes the intermod to happen in the HT's front end.
Various filter books should describe a bandpass filter that has 50 ohms
in and 50 ohms out. It might also act as an antenna tuner.

Date: 18 Oct 93 15:33:12 GMT
From: auratek!epacyna@uunet.uu.net
Subject: QRP / Building Items For Sale
To: ham-homebrew@ucsd.edu

In order to make time for some new projects, I would like to sell the following:

1. Built and tested receiver PCB from "Better Ears for the MAVTI-40" see QST article in October 1985 pg.14, or QRP Classics pg.140.

   The receiver is built on a gold plated (2 sided) PCB about 5"W x 3 1/2"W. It contains all the circuits of Fig. 6. The audio band pass has been optimized for a 600Hz center frequency. Although a 40M double tuned band pass filter is installed, this can easily be changed for the receiver to operate on any band. The PCB also includes T/R keying and antenna change over. Just add a VFO for a fully functional receiver. I recommend the NG1G premixed VFO (see QRP Quarterly) since the VFO buffer to drive the SBL-1 is on the PCB and this would allow you to build for any band. Add a transmitter and sidetone and you can build a complete transceiver around this module. One notable feature of this reciver circuit is the notch filter which works quite well. Price does not include the few components that are chassis mounted (e.g. jacks, pots etc.). Full documentaion included. Price $50.00

2. Built and tested receiver PCB from "High Performance DC Receivers" see QST August 1992, pg.19.

   This receiver sounds just like the author claims. The installed 7th order Elliptical filter was sightly modified to obtain a superior response (Fc= 850Hz S.F. 1.4:1). Also the biasing for the op amps and low noise pre-amp was optimized and the idle current for the complementary pair AF stage was cut back to conserve power drain. Can be used on any frequency from .5 to 200Mhz with addition of VFO and an appropriate band pass filter. Full documentaion included. Price $65.

3. Set of (3) PCB's for the "Ugly Weekender II" see QST June 1992 and 1992 ARRL Handbook. Price is $10 with documentation.

   Or, I will furnish a complete parts kit for this transceiver with these boards (less 7Mhz calibration osc., enclosure, knobs and jacks) for $50.

4. SWR/Power Meters - These meters are new, clear plastic with a black band at the bottom. SWR is indicated at 1:1, 1.5:1, 2:1, 3:1 and by a red arc for > 3:1. Power scalers are 0 - 10, 0 -100 and 0 - 1000. Size is 2 7/16"W x 2 5/16"H. The mounting hole is 1 3/4" diameter. The movement is 100uA. Price is $10 each.

Shipping is not included in any of the above prices.

Ed Pacyna W1AAZ email: ed@auratek.com telephone: (617) 290-4800 X114

End of Ham-Homebrew Digest V93 #77
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